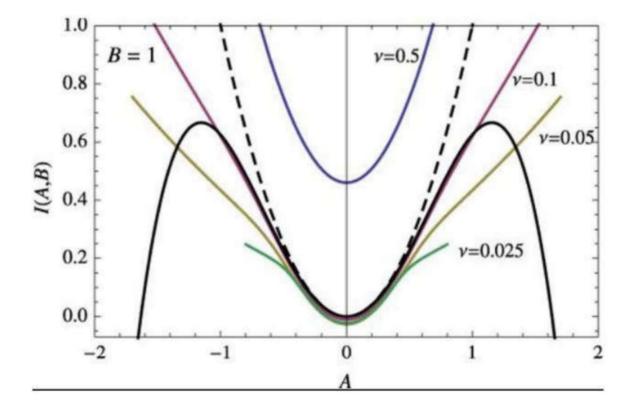
LAB 8 JACOBI METHOD

Objective

Write an algorithm for solution of nonlinear equations by Jacobi method. Implement this algorithm by PYTHON coding and fill the following observation table.

Diagram



Observations

S#	Functions	Tolerance	No. of Iterations	Root
1	83x + 11y - 4z = 95 7x + 52y + 13z = 104 3x + 8y + 29z = 71	0.01		x = y = z =
		0.001		x = y = z =
		0.0001		x = y = z =
2	8x - 3y + 2z = 45 4x + 11y - z = 71 6x + 3y + 12z = 35	0.01		x = y = z =
		0.001		x = y = z =
		0.0001		x = y = z =
3	8x - 3y + 2z = 45 4x + 11y - z = 71 6x + 3y + 12z = 35	0.01		x = y = z =
		0.001		x = y = z =
		0.0001		x = y = z =

Conclusion: